

HP Version Control 7.3 Installation Guide

Abstract

This guide provides information about installing and getting started for the HP VCA and HP VCRM. It includes an introduction to basic concepts, definitions, and functionality associated with the HP VCA and HP VCRM. This document is intended for anyone who is responsible for installing and configuring HP VCA and VCRM.



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1 Product overview

Today's distributed enterprise networks are some of the most complex ever constructed. As companies deploy more business-critical applications, these networks continue to rapidly expand, becoming more sophisticated and requiring servers that support the latest technological innovations. In this fast-changing environment, any loss of availability translates into a loss of time and money, and manageability has become the leading success criterion for today's highly competitive businesses.

HP systems provide maximum uptime with minimal maintenance. HP has developed advanced server management technologies, such as the [HP Version Control Repository Manager](#) (HP VCRM), [HP Version Control Agent](#) (HP VCA), and [HP Systems Insight Manager](#) (HP SIM). The tight integration of these advanced technologies reduces server management efforts, enabling administrators to work issues, resolve problems, and install server software from remote locations by means of a standard web browser.

HP VCRM

The HP VCRM is a repository that stores the software and firmware components used to support ProLiant servers on Windows and Linux platforms. By default, the HP VCRM is installed on the HP SIM Central Management Server, however you can specify a custom directory or server location.

You can use the HP VCRM as a central point to define software baselines and to automate the installation and change management of HP software and firmware updates to production systems.

The HP VCRM catalogs system software and firmware that is stored where the HP VCRM is installed. The software and firmware can be manually downloaded from

<http://www.hp.com/servers/swdrivers> directly to the file system, or you can use the HP VCRM to automatically download software or manually upload software from any web client. Software is organized into groups by function and operating system. You can view detailed information about each piece of software by clicking the software component name. The HP VCRM also enables you to create customized groupings of software, which can then serve as a system software baseline for the entire managed environment or a subset of your environment.

NOTE: If you use the automatic download feature for software updates, then you must ensure that either the HP VCA is configured and directed to the HP VCRM or the operating systems are selected for PSP download through HP VCRM Installer GUI during installation/upgrade, web page GUI during configuration, or through the CLI option. However, if you manually upload software updates, then you must also manually update the HP VCRM. In this case, the HP VCA need not point to the HP VCRM.

HP VCA

The HP VCA is an Insight Management Agents that is installed on a server to enable you to view the HP software and firmware that is installed on that server. The HP VCA can be configured to point to a repository being managed by the HP VCRM, enabling easy version comparison and software update from the repository to the server on which the HP VCA is installed.

The HP VCA provides version control and system update capabilities for a single HP system. The HP VCA determines server software status by comparing each component installed on the local system with the set of individual components or a specified ProLiant and Integrity Support Packs listed in the HP VCRM. You can also update individual components or multiple components by checking the checkbox. The entire ProLiant and Integrity Support Packs can be installed by clicking the **install** icon located next to the system software status icon.

The installation of single or multiple software components on an individual system can be initiated from the HP VCA, which retrieves the software from the HP VCRM. To install multiple components

or custom baselines to one or more systems, you can use the installation options in HP SIM to install the software from the HP VCRM.

NOTE: You can access VCA and VCRM from the System Management Homepage (SMH).

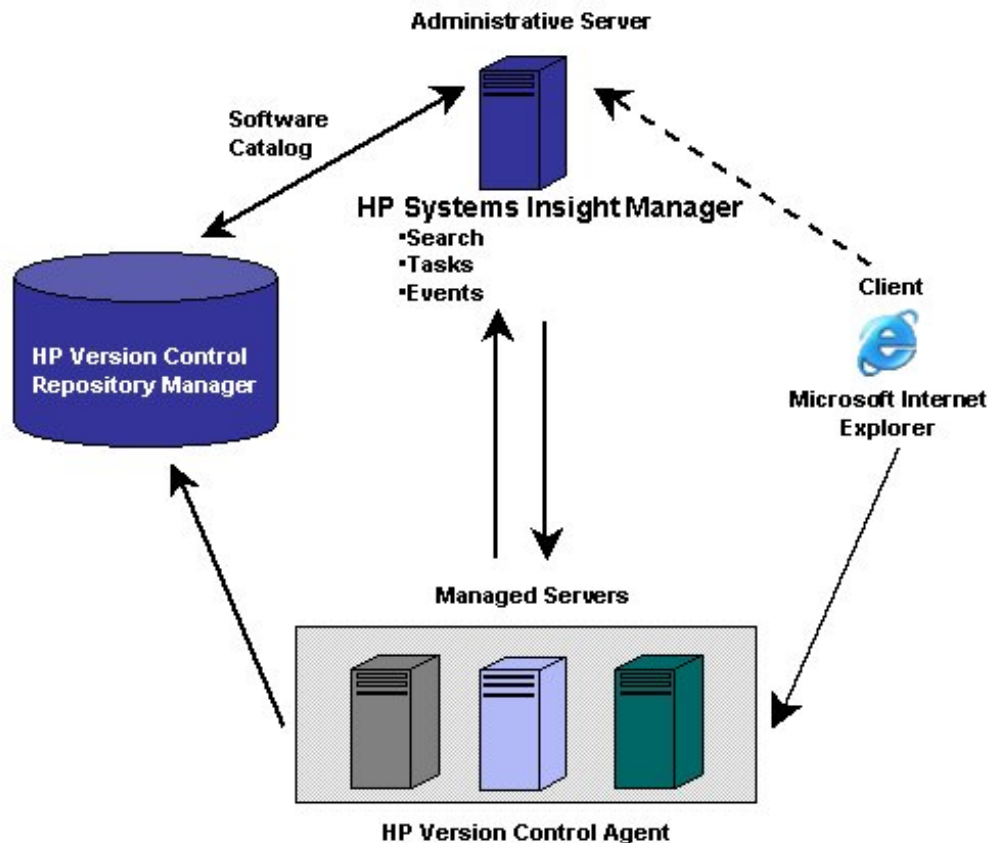
HP SIM integration

For software versioning and updating, HP SIM relies on the HP VCRM and the HP VCA. By using these applications, HP SIM provides a single view of the software status for all managed ProLiant or Integrity servers, plus the capability to update software and firmware on those servers through its powerful query and task features. Updates can be scheduled and applied to specific sets of servers based on predetermined criteria, including applying updates only to those systems that require an update.

To take full advantage of the software update capabilities of HP SIM, ensure that:

- Every managed target server on the network has the HP VCA installed and is configured to use a repository managed by the HP VCRM
- Every repository that is to be used has the HP VCRM installed
- You use the automatic update feature of the HP VCRM to update the configured repository with the latest software from HP automatically

The following diagram illustrates the interaction of HP SIM with the HP VCRM and the HP VCA to perform software updates.



Basic functions of HP VCRM and HP VCA

The HP VCRM and the HP VCA are integrated with the System Management Homepage (HP SMH), which is the standard single-system management tool in the ProLiant Essentials Foundation Pack.

HP SIM, also part of the ProLiant Essentials Foundation Pack, uses the HP VCRM and the HP VCA to facilitate software versioning, updates, and related tasks.

HP VCRM

The HP VCRM is designed to manage a repository containing ProLiant and Integrity Support Packs and HP Service Pack for ProLiant as well as individual server software and firmware components.

The repository can be kept current by using the automatic update feature of the HP VCRM or by copying software directly to the repository from the HP SmartStart CD, HP SmartSetup CD, another repository, or the HP website.

HP VCA

The HP VCA is available for Windows and Linux operating systems. The HP VCA is an integrated part of the HP SMH that is designed to display the available software inventory of the server on which it is installed. The HP VCA also enables the installation, comparison, and update of server software from a repository that is managed by the HP VCRM.

Users with administrator or operator privileges can access the HP VCA to maintain the software inventory of the server manually. Users with user privileges can access the HP VCA but cannot perform installation and configuration activities. The installation of components and configuration activities are saved to a log file at the server. The HP VCA logs activities, such as software installations, which are saved in this log. However, installations performed outside the HP VCA do not appear in this log.

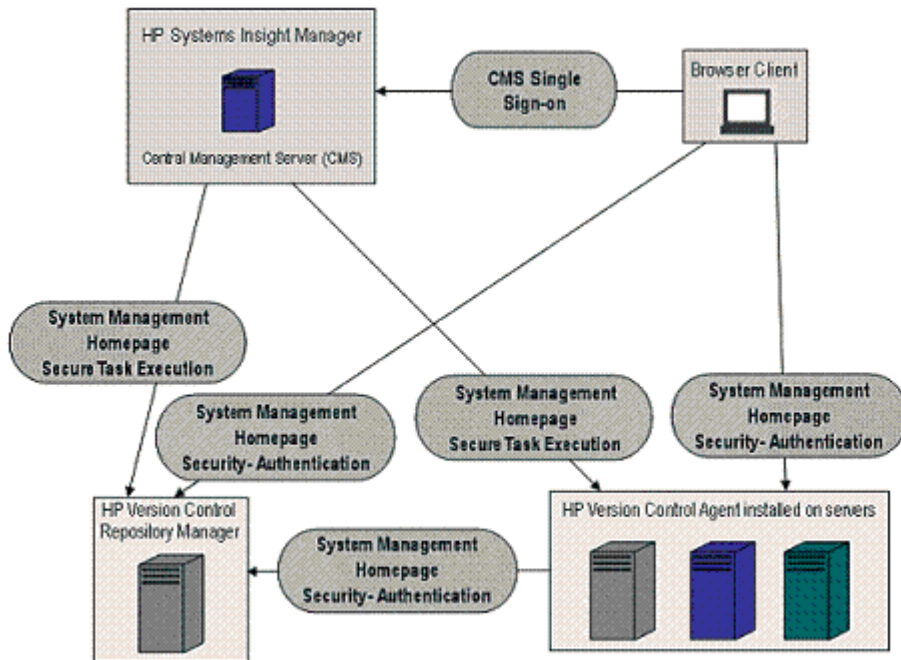
HP SIM

HP SIM is a Web-based server management application that leverages the power of the Internet to provide Web-based systems management. When integrated with the HP VCA and the HP VCRM, HP SIM provides a proactive, easy-to-use, automated, and cost-effective solution for managing distributed systems and updating software on the managed systems remotely.

HP SIM transforms management of standards-based, distributed computing environments. By enabling browser access to its components, HP SIM provides efficient management of HP and third-party devices and groups of systems using Simple Network Management Protocol (SNMP), Desktop Management Interface (DMI), and Hypertext Transfer Protocol (HTTP), automatically consolidating and integrating the management data and displaying the information on demand. With HP SIM, you can monitor and manage groups of servers, clients, clusters, and networking products anywhere, at any time, from a standard web browser.

Security considerations

Three distinct types of secure connections are employed in the [version control](#) architecture. The following diagram illustrates the connections.



All connections and data are transferred using Secure Sockets Layer (SSL) communications over HTTP. Interactive users connect using a web browser (client) application. The specific security depends on which web application they are browsing.

HP SIM uses operating systems authentication, based on the server where it is installed. Single sign-on enables a user that browses to the HP SIM system to follow links from that system to other managed systems without being prompted to login again.

When the same user browses directly to a managed server, they must authenticate through the HP SMH, using an account and password that is valid on that system.

HP SIM communicates with web applications, such as the HP VCA and the HP VCRM, using Secure Task Execution, which is enabled by configuring the HP SMH to trust that Central Management Server (CMS). Refer to the *HP System Management Homepage Installation and Configuration Guide* for information regarding configuring the HP SMH.

Finally, when the HP VCA communicates with a HP VCRM, it acts as a client application, and requires the same kind of authentication information, such as an account and password, that an interactive user needs to login to the HP SMH on which the HP VCRM is installed. The HP SMH requires a valid operating system account and password. Refer to the HP VCA online help for more information regarding configuring these settings for the HP VCA.

For more information regarding the HP SMH, refer to the *HP System Management Homepage Installation and Configuration Guide*. For more information regarding HP SIM, refer to the *HP SIM User Guide*.

2 Obtaining the software

This chapter provides information regarding obtaining the HP VCA, HP VCRM, and HP SIM.

Obtaining HP VCA, HP VCRM, and HP SIM

HP VCA

The HP VCA is available from the following sources:

- **HP Service Pack for ProLiant**
To download the latest version of the HP Service Pack for ProLiant, go to <http://www.hp.com/go/spp/download>.
- **HP SmartStart CD**
For more information regarding the HP SmartStart CD, refer to the documentation included on the HP SmartStart CD or go to <http://www.hp.com/servers/manage>.
- **HP Software Update CD**
The HP Software Update CD provides software maintenance functionality. For more information regarding the HP Software Update CD, refer to the documentation included on the HP Software Update CD or go to <http://www.hp.com/servers/manage>.
- **HP SmartSetup CD**
For more information about the HP SmartSetup CD, refer to the documentation included on the HP SmartStart CD or go to <http://www.hp.com/servers/manage>.

HP VCRM

The HP VCRM is available from the following sources:

- **HP website**
Go to <http://www.hp.com/servers/swdrivers>.
- **HP Management DVD**
When web access is not available or download speeds are too slow, the HP VCRM can be obtained from the HP Management DVD 7.20 or later. For more information about the HP Management DVD, refer to the documentation included on the HP Management DVD or go to <http://www.hp.com/servers/manage>.
- **HP Insight Management DVD**
The HP VCRM can be obtained from the HP Insight Management DVD. For more information about the HP Insight Management DVD, refer to the documentation included on the HP Insight Management DVD, or go to <http://www.hp.com/servers/manage>.

HP SIM

HP SIM is available from the following sources:

- **HP website.**
Go to <http://www.hp.com/servers/manage>.
- **HP Management DVD.**
When Web access is not available or download speeds are too slow, HP SIM can be obtained from the HP Management DVD 7.20 or later. For more information about the HP Management

DVD, refer to the documentation included on the HP Management DVD or go to <http://www.hp.com/servers/manage>.

- **HP Insight Management DVD.**

HP SIM can be obtained from the HP Insight Management DVD. For more information about the HP Insight Management DVD, refer to the documentation included on the HP Insight Management DVD, or go to <http://www.hp.com/servers/manage>.

3 Installing the HP VCA using HP Systems Insight Manager

HP SIM is a system management software that is capable of managing a wide variety of systems, including HP systems, clusters, desktops, workstations, and portables. You can use the **Initial Service Pack for ProLiant** or the **Configure or repair Agents** options to deploy VCA and other agents to all the Windows managed systems.

The **Initial Service Pack for ProLiant** option allows you to install an HP Service Pack for ProLiant from a Windows Central Management Server (CMS) to a Windows managed system when you do not have any HP Insight Management Agents, especially the HP Version Control Agent, installed. To use this option, you should have configured the HP Version Control Repository Manager in your network with at least one **HP Service Pack for ProLiant**. Also, you must configure the VCA component using the **Configure a Component** option within the VCRM **Catalog** option prior to installing VCA using this option.

Pre-configuring VCA component in VCRM

1. Access the HP Version Control Repository Manager homepage.
<https://vcrm system name:2381/vcrepository>
2. Login to the System Management Homepage.
The **HP Version Control Repository Manager** screen appears.
3. Click **Catalog**. The **VCRM Catalog** page appears.
4. Click **Configure a Component**. The **Component Pre-configuration** page appears.
5. Select the VCA component from the list of configurable components and click **Next**. The **Version Control Agent Setup** page appears.
6. In the **Computer Name** field, enter the name of the system on which the VCRM is installed.
7. Select one of the following options.
 - **Using Username/Password**
 - **Using certificate**
8. To login using the **Using Username/Password** option, select the appropriate option and perform the following steps:
 - a. In the **Login Account** field, enter the login account information of the System Management Homepage of the VCRM system. If you have created an account specifically for Version Control, use that account name.
 - b. In the **Login Password** field, enter the password for the login account on the VCRM system.
9. To login using the **Using certificate** option, select the appropriate option.

NOTE: Ensure that appropriate Trust mode and Trusted Management Servers are set in the HP VCRM SMH, in order to use the **Using certificate** option.

10. Enable or disable Overwrite corresponding settings of an already installed VCA when this version is installed as an upgrade or re-installed. If not checked, the values saved here will apply only on the initial installation of this copy of VCA software. Enable this option if you are upgrading or reinstalling and you want to overwrite the existing VCA settings.

NOTE: This option is enabled by default. If you do not want to overwrite existing VCA settings, you must clear this option.

11. Click **Save** to save the settings. Alternatively, you can click **Cancel** to discard the settings.

For more information on configuring a component, refer the *HP Version Control Repository Manager Online Help*.

Deploying VCA Using the Configure or Repair Agent option

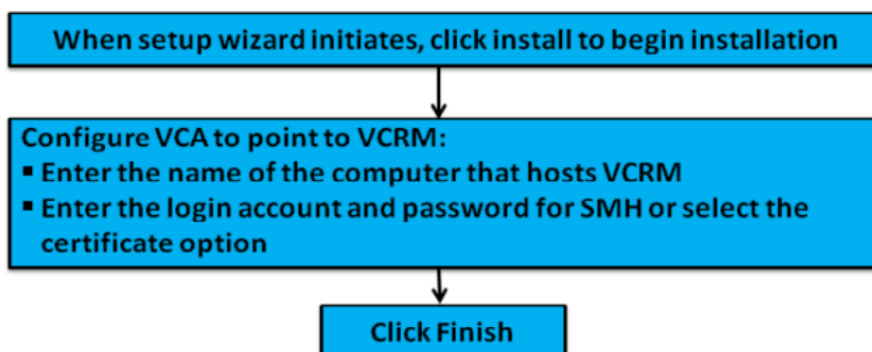
You can use the **Configure or Repair Agent** option to setup managed systems and simultaneously install the VCA from Windows CMS to Windows managed systems. To use this option, select **Configure**→**Configure or Repair Agents** in HPSIM.

NOTE: Installing VCA using the **Configure or Repair Agents** option is supported from HPSIM 5.2. For more information on using this option, refer the *HP SIM Online Help*.

4 Installing the HP VCA on Windows operating systems

HP VCA requirements for Windows

The HP VCA can be used in conjunction with HP SIM and the HP VCRM. The options must be configured for full functionality. The installation of the HP VCA requires that you specify a certified login with a HP VCRM. When specified, HP VCAs can determine the versions of HP software and firmware installed on each individual system and compare the version with the latest software or firmware and baseline definitions available in the HP VCRM. The following diagram illustrates a logical order for the initial HP VCA installation process on a Windows operating system.



System requirements

To install the HP VCA on a Windows system, the system must meet the following minimum requirements.

Supported hardware and software

- Supported operating systems
 - Microsoft Windows Server 2003 with Service Pack 2
 - Microsoft Windows Server 2003 R2
 - Microsoft Windows Server 2003 ES for 64-bit Extended Systems (Starting with the Service Pack for ProLiant)
 - Microsoft Windows Server 2003 64-bit Enterprise Edition
 - Microsoft Windows Server 2003 for Itanium-based systems, 64-bit
 - Microsoft Windows Storage Server 2003
 - Microsoft Windows Unified Data Storage Server 2003 x64 Edition
 - Microsoft Windows Unified Data Storage Server 2003 x64 Edition R2
 - Microsoft Windows Server 2008
 - Microsoft Windows Server 2008 R2
 - Microsoft Windows Server 2008 R2 SP1
 - Microsoft Windows Server 2008 R2 Foundation
 - Microsoft Windows Server 2008 for Itanium-based systems

- Microsoft Windows Server 2008 x64
- Microsoft Windows Server 2012
- Microsoft Windows 2008 Storage Server
- Microsoft Windows 2008 Storage Server x64
- Microsoft Windows 2008 R2 Storage Server
- Microsoft Windows XP Professional, XP 32-bit and 64-bit edition
- Microsoft Windows multipoint server 2011
- Microsoft Windows Vista
- Microsoft Windows 7
- Microsoft Windows Small Business Server 2011
- Server software
 - TCP/IP installed
 - HP SMH installed (Starting with the Service Pack for ProLiant)
- Hardware
 - ProLiant Server
 - Windows Integrity Servers
 - ProLiant DL980 G7 server
- Disk space
 - 11 MB on the Windows *SystemDrive*

Note: The HP VCA installer can require up to 12 MB of additional free space on your Windows *SystemDrive* to complete the installation.
 - 70 MB for Integrity servers
- System memory
 - 256 MB of RAM for Windows Server 2003
 - 256 MB of RAM for Windows 2003 Server ES for 64-bit Extended Systems
 - 256 MB of RAM for Windows 2003 Server 64-bit Edition

Client requirements

Requirements for client access to the HP VCA are outlined.

Hardware and software

- Operating system
 - Microsoft Windows Server 2003 with Service Pack 2
 - Microsoft Windows XP
 - Microsoft Windows Server 2008

- Microsoft Windows Server 2008 R2
- Microsoft Windows Server 2008 R2 SP1
- Microsoft Windows Server 2008 R2 Foundation
- Microsoft Windows Server 2012
- Microsoft Windows Vista
- Microsoft Windows 7
- Browser
 - Internet Explorer 10.0
 - Internet Explorer 9.0
 - Internet Explorer 8.0
 - Internet Explorer 7.0
 - Internet Explorer 10.0
 - Internet Explorer 6.0 with Service Pack 1 or later
 - Firefox 3.5
 - Firefox 3.6
 - Firefox 7.0
 - Firefox 10.0
- System memory
 - 256 MB of RAM for Microsoft Windows XP or Microsoft Windows Server 2003
 - 256 MB of RAM for Microsoft Windows 7, Microsoft Windows Vista, or Microsoft Windows Server 2008

Installation overview

1. Verifies the presence of a previously installed version of the HP VCA or performs new installation on systems with no previous installation or upgrades current installation on systems with existing installation
Note: You do not need to initiate the upgrade process because the installation of the HP VCA does it for you.
2. Copies the necessary files to the correct location
3. Registers HP VCA
4. Initiates the operation of the HP VCA

The HP VCA installation executable is located in the following locations:

- <http://www.hp.com/servers/manage>
- HP SmartStart CD
- HP SmartSetup CD
- Software Update CD
- A repository managed by the HP VCRM that contains the latest Service Pack for ProLiant and Windows ProLiant and Integrity Support Packs.

Installing the HP VCA for Windows

The HP VCA installation wizard launches in interactive mode when the installation executable is run from the command line or launched from Windows Explorer.

After the wizard initiates, the **HP Setup** dialog box appears.

If a previous version of the HP VCA is installed, the HP VCA upgrade is initiated. The **HP Setup** dialog box appears and indicates the software is installed but not current. Click **Install** to upgrade.

If a current version of the HP VCA is installed, the HP VCA reinstall is initiated. The **HP Setup** dialog box appears and indicates the software is installed and current. Click **Install** to reinstall over the currently installed software.

If you have a newer version of the HP VCA installed, and you want to downgrade, uninstall the current HP VCA, reboot the machine, and run the new installation.

Click **Install**. If this is the initial installation, the **HP VCA Configuration** dialog box appears.

Configuring the HP VCA

The HP VCA Configuration wizard appears during the initial installation of the HP VCA, and enables you to configure the HP VCRM, which provides a reference point for available HP software.

Caution: Enter the account and provide the appropriate password for the HP VCA to download software from the HP VCRM. Enter at least a user-level account and provide the appropriate password for the HP VCA to provide software status by comparing the inventory with what is available at the HP VCRM. However, user-level account access does not allow the HP VCA to download and install software.

To configure the HP VCA's settings to use a HP VCRM to obtain software status and software downloads:

1. In the **Repository Manager Device** field, enter the name of the system that hosts the HP VCRM. You can enter an IP address or system name.
2. In the **Login Account** field, enter a login that has the appropriate security level for the HP SMH on the specified system. The type of account, account name and password depend on whether the HP SMH or Management HTTP Server is installed at the system specified in the previous step. This account must have **Operator** or **Administrator** level at the HP VCRM system, so it is recommended that you use a browser to verify the login account and password before entering it.

Note: A privileged user in HP VCRM can connect to HP VCA. This user also has the permission to download PSPs.

Note: This account is at the HP VCRM system, not the HP VCA system.

Note: To avoid any potential administrator lockouts from the HP SMH, the account named **Administrator** cannot be used to connect to the HP VCRM from the HP VCA. Do not use that account if the HP VCRM system has the HP SMH installed. For more information, see *HP System Management Homepage User Guide*.

3. In the **Password** field, enter the password for the login account.
4. In the **Password Confirm** field, re-enter the password exactly as you entered it in the **Password** field.
5. Click **Finish**. The **HP Setup** dialog box appears and the installation begins. When it completes, the results of the installation are displayed.
6. Click **Close**. The installation is complete.

Additionally, HP Version Control also supports Single Sign On (SSO) system that allows a trusted HP VCA the ability to connect to the HP VCRM without providing authentication details to login to HP VCRM's HP SMH. When the Using Certificate option is selected during configuring the firewall exceptions, HP SMH processes the SSO request depending on the Trust Mode selected. For more information about configuring the firewall exception, see *HP Version Control Agent User Guide*.

HP SMH obtains the HP VCA 's HP SMH public certificate and uses it to validate the trust relationship. If HP SMH is unable to establish the trust relationship or cannot verify the security token, then HP VCA displays the following error message: The specified repository, VCRM IP, is invalid or not reachable.

NOTE: To import a certificate, see *HP System Management Homepage Installation and Configuration Guide*.

SSO functioning between HP VCA and HP VCRM

In order to establish a trust relationship and for HP VCA to achieve the ability to connect to the HP VCRM, the HP SMH generated certificate must be imported by HP VCRM.

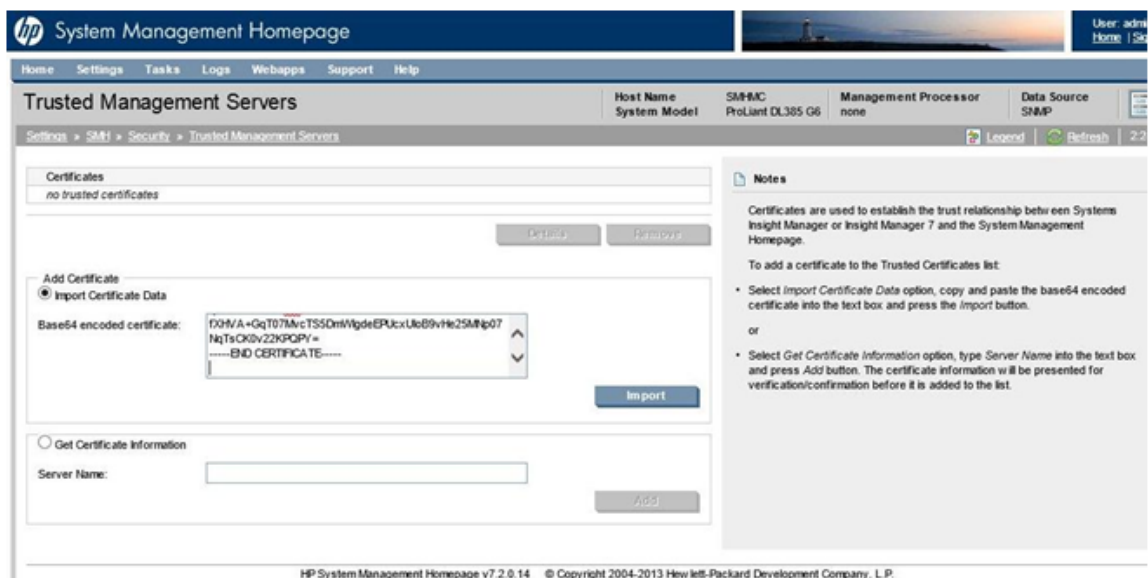
NOTE: When HP SMH is unable to establish the trust relationship or cannot verify the security token, the following error message is displayed:

The specified repository, <VCRM IP>, is invalid or not reachable

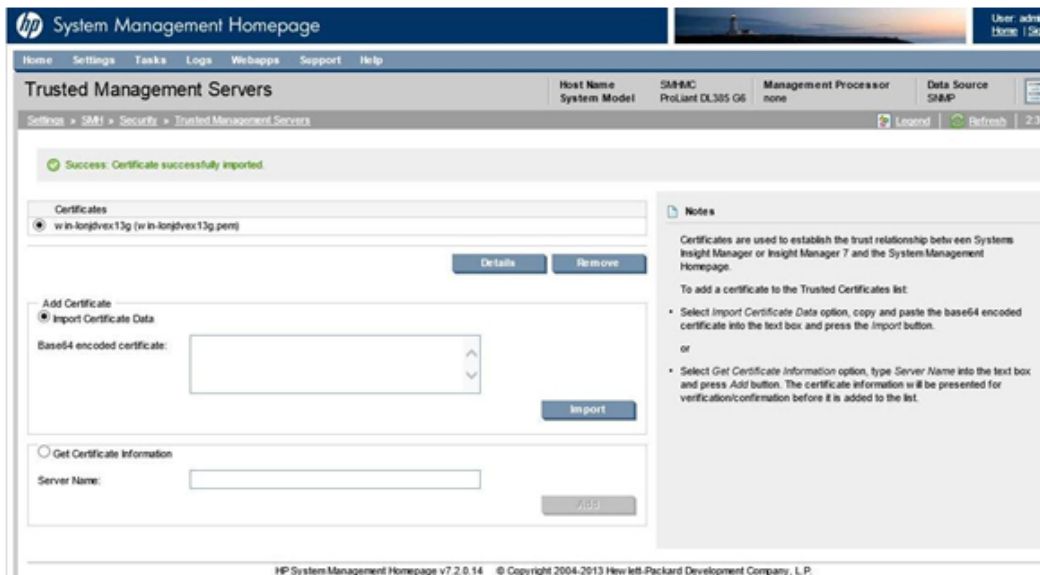
Follow these steps to import the HP SMH generated certificate:

NOTE: These steps are applicable in case of both Windows and Linux operating systems, when the trust mode of VCRM's SMH is set as "Trust by Certificate".

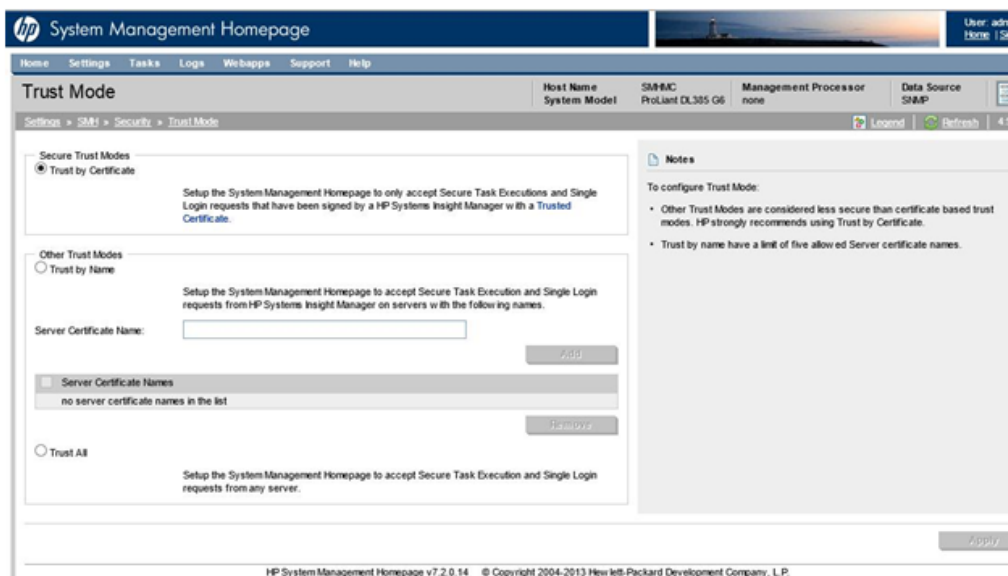
1. Login to HP VCA system and copy the HP SMH certificate data from the following path:
 - Windows: C:\hp\sslshare\cert.pem
 - Linux: \etc\opt\hp\sslshare\cert.pem
2. Log in to the HP SMH of HP VCRM system.
3. Select **Settings** from the menu.
4. In the System Management Homepage box, click the **Security**.
5. Click the **Trusted Management Servers** link.
6. In the add Certificate area, click **Import Certificate Data**.
7. Paste the Base 64-encoded certificate data into the HP SMH textbox in the HP VCRM system.



8. Click **Import**.



9. Click **Settings**→**Security**→**Trust Mode** and select the **Trust Mode** as **Trust by Certificate** in HP SMH of HP VCRM system.
10. Click **Apply**.



11. To add multiple VCA server certificates, repeat the steps 1 to 11.

Installing the HP VCA for Windows silently

The HP VCA installation for Windows enables you to silently install the HP VCA.

Installing silently using the CLI

To install silently using the CLI:

From a command prompt, enter the following command:

```
component name /silent
```

For example, you might enter `c:\>cp00xxxx.exe /silent.`

or

```
c:\>cp00xxxx.exe /s
```

Note: Be sure to configure the HP VCA component using the HP Smart Update Manager before installing it to remote systems. If the component is not configured, the HP VCA displays an *unknown* status.

Alternatively, HP VCA can also be installed silently using the HP Smart Update Manager.

To install the HP VCA silently using the HP Smart Update Manager:

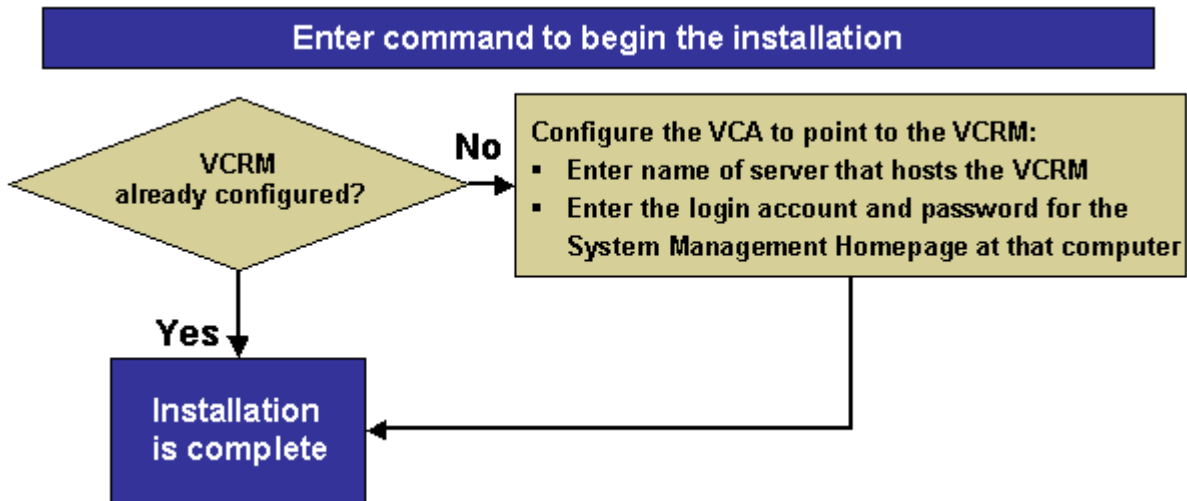
1. Execute the `cpfiles.exe` available in the HP SmartStart CD at the location: `compaq\csp\nt`
2. Extract the contents to the location on the system where you want to install the HP VCA.
3. From the same location, execute the following command in the command prompt:

```
hpsum /s cp00xxxx.exe
```

5 Installing the HP VCA on Linux operating systems

HP VCA requirements for Linux

The HP VCA can be used in conjunction with HP SIM and the HP VCRM. The options must be configured for full functionality. The following diagram illustrates a logical order to the HP VCA installation process on a Linux operating system.



System requirements

To install the HP VCA on a Linux system, the system must meet the following requirements.

Supported hardware and software

- Operating systems
 - Red Hat Enterprise Linux 6 for x86 and AMD64/EM64T, Update 3
 - Red Hat Enterprise Linux 6 for x86 and AMD64/EM64T, Update 2
 - Red Hat Enterprise Linux 6 for x86 and AMD64/EM64T, Update 1
 - Red Hat Enterprise Linux 5 for x64/x86 and AMD64/EM64T, Update 9
 - Red Hat Enterprise Linux 5 for x64/x86 and AMD64/EM64T, Update 8
 - Red Hat Enterprise Linux 5 for x64/x86 and AMD64/EM64T, Update 7
 - Red Hat Enterprise Linux 4 for x64/x86 and AMD64/EM64T, Update 8
 - Red Hat Enterprise Linux 4 for x64/x86 and AMD64/EM64T, Update 7
 - SUSE Linux Enterprise Server 11 for x86 and AMD64/EM64T, Service Pack 2
 - SUSE Linux Enterprise Server 11 for x86 and AMD64/EM64T, Service Pack 1
 - SUSE Linux Enterprise Server 11 for x86 and AMD64/EM64T
 - SUSE Linux Enterprise Server 10 for x86 and AMD64/EM64T, Service Pack 4

- SUSE Linux Enterprise Server 10 for x86 and AMD64/EM64T, Service Pack 3
- SUSE Linux Enterprise Server 10 for x86 and AMD64/EM64T, Service Pack 2
- Server software
 - HP SMH (`hpsmh` RPM) installed
 - HP Server Management Application and Agents (`hp-health`, `hp-snmp-agents`, `hp-smh-templates`, RPM) 7.00 or later required for software inventory and status features to be functional
- Hardware
 - ProLiant Server
- Disk space
 - 36 MB
- System memory
 - 256 MB of RAM
- HP Server Management Drivers and Agents
 - `hp-health`, `hp-snmp-agents`, `hp-smh-templates`. RPM 7.0 or later

Note: The SNMP services must be active with at least one community string defined to allow read access, must be configured for software inventory and status features to be functional.

Client requirements

Requirements for client access to the HP VCA from Linux operating systems are outlined.

Hardware and software

- Operating systems
 - Red Hat Enterprise Linux 6 for x86 and AMD64/EM64T, Update 3
 - Red Hat Enterprise Linux 6 for x86 and AMD64/EM64T, Update 2
 - Red Hat Enterprise Linux 6 for x86 and AMD64/EM64T, Update 1
 - Red Hat Enterprise Linux 6 for x86 and AMD64/EM64T
 - Red Hat Enterprise Linux 5 for x64/x86 and AMD64/EM64T, Update 9
 - Red Hat Enterprise Linux 5 for x64/x86 and AMD64/EM64T, Update 8
 - Red Hat Enterprise Linux 5 for x64/x86 and AMD64/EM64T, Update 7
 - Red Hat Enterprise Linux 5 for x64/x86 and AMD64/EM64T, Update 6
 - Red Hat Enterprise Linux 5 for x64/x86 and AMD64/EM64T, Update 5
 - Red Hat Enterprise Linux 5 for x64/x86 and AMD64/EM64T, Update 4
 - Red Hat Enterprise Linux 5 for x64/x86 and AMD64/EM64T, Update 3
 - Red Hat Enterprise Linux 4 for x64/x86 and AMD64/EM64T, Update 8
 - Red Hat Enterprise Linux 4 for x64/x86 and AMD64/EM64T, Update 7

- Red Hat Enterprise Linux 3 Update 3 for x86 and AMD64 and Intel EM64T, Update 9
- Novell Open Enterprise Server (OES) with Service Pack 2
- SUSE Linux Enterprise Server 11 for x86 and AMD64/EM64T, Service Pack 2
- SUSE Linux Enterprise Server 11 for x86 and AMD64/EM64T, Service Pack 1
- SUSE Linux Enterprise Server 11 for x86 and AMD64/EM64T
- SUSE Linux Enterprise Server 10 for x86 and AMD64/EM64T, Service Pack 4
- SUSE Linux Enterprise Server 10 for x86 and AMD64/EM64T, Service Pack 3
- SUSE Linux Enterprise Server 10 for x86 and AMD64/EM64T, Service Pack 2
- SUSE Linux Enterprise Server 9 for x86 and AMD64/Intel EM64T, Service Pack 4
- Browsers
 - Firefox 17 ESR or later
- System memory
 - 128 MB of RAM

Note: You can browse to a Linux server from a Windows system using Internet Explorer 6.0 or higher.

Installing the HP VCA for Linux

The HP VCA installation process installs the necessary files and starts the services, which are registered for automatic execution on the next system initialization. A reboot is not necessary after the installation process.

The HP VCA for Linux requires the HP VCRM 2.1 or later.

To install the HP VCA on a Linux system, complete the following steps:

Note: You must be logged in as root to perform the initial install, reinstall, or upgrade of the HP VCA.

1. Install SMH.
2. Execute the following commands to

Install: `rpm -ivh hpvca-7*.linux.rpm`

Upgrade: `rpm -Uvh hpvca-7*.linux.rpm`

Note: HP VCA for Linux can be installed or upgraded as part of the Service Pack for ProLiant installation.

Note: During the installation process, you are not prompted to enter the HP VCRM details instead the following message is displayed "Execute the command:

`/opt/hp/vcagent/etc/vcaconfig.sh` as 'root' user to configure the HP Version Control Agent."

3. If HP SMH has not been configured, then it must be configured. For more information on configuring HP SMH, see HP SMH Online Help System.

4. To configure the HP VCA, login as *root* and execute the following command:

`/opt/hp/vcagent/etc/vcaconfig.sh`

Note: If `opt/hp/vcagent/etc/vcaconfig.sh` is not executed after the initial installation of VCA, VCA will display "Unkown" status.

Result: The HP VCA service is stopped, displaying the following:

```
[root@localhost ~]# opt/hp/vcagent/etc/vcaconfig.sh
Stopping HP Version Control Agent: [ OK ]
A user interface is displayed, to enter the HP VCRM details. The HP VCRM host address, login
name, and password can be specified. For example:
Please, set the required fields for version control agent
configuration
Repository.....: <enter the name or IP of the system where the repository is
installed>
Press 1 for Login through User name and Password
or.....: <enter a login name and password associated with the
login name with operator or administrator privileges>
Press 2 for Login through Certificate.....: <enter the appropriate
login credentials to establish configuration through certificate>
Enter Option.....: <Enter the desired option>
Note: After applying the configurations, the VCA service is started automatically with new
settings.
Note: If you do not specify a HP VCRM, a message displays asking you if you want to specify
the HP VCRM. If you select No, a warning message appears indicating a repository has not
been configured.
```

5. The HP VCA configuration is complete. A reboot is not necessary.

Verifying the HP VCA service is running

To verify the HP VCA service is running on the system, enter the following:

1. For UnitedLinux and SUSE Linux, execute the following command: `/etc/init.d/hpvca status`
The output that appears is similar to: Checking for process hpvca: running
2. For Red Hat Linux, execute the following command: `# service hpvca status`
The output that appears is similar to: vcagentd (pid 698 697 696 695 694 657) is running|

Installing the HP VCA for Linux silently

The HP VCA installation for Linux enables you to silently install the HP VCA.

Installing VCA silently using the CLI

To install HP VCA silently using the HP Smart Update Manager:

1. Copy the Linux Support Pack contents from the HP SmartStart CD to a location on the system where you want to install HP VCA.
2. From the same location, execute the following command:
`./hpsum -s -c hpvca-6.1.x-x.*linux.rpm`

NOTE: Alternatively, you can also use the certificate option to connect to HP VCRM from HP VCA that allows a trusted HP VCA the ability to connect to HP VCRM without providing the authentication details.

6 Installing the HP VCA using the HP Smart Update Manager

HP Smart Update Manager utility enables you to deploy Integrity Support Pack (ISP), ProLiant Support Pack (PSP), and Service Pack for ProLiant (SPP) software components from a single, easy-to-use interface. This utility enables legacy support of existing software while simplifying the overall deployment process. It is no longer necessary to run the SETUP executable files (SETUPC.EXE, SETUPEX.EXE, and SETUP.EXE). The HP Smart Update Manager utility now provides this functionality. The utility also provides installation logic and version control that automatically check for dependencies, installing only the correct updates for optimal configuration.

NOTE: The following operating systems are not supported by the HP Smart Update Manager:

- Novell Open Enterprise Server
 - Red Hat Enterprise Linux 3
 - SUSE Linux Enterprise Server 9
-

Pre-configuring and installing the Linux and Windows HP VCA component using the HP Smart Update Manager

To pre-configure the HP VCA component using the HP Smart Update Manager, see the latest version of the *HP Smart Update Manager User Guide* at <http://www.hp.com/go/hpsum/documentation>

Installing the HP VCA without pre-configuration

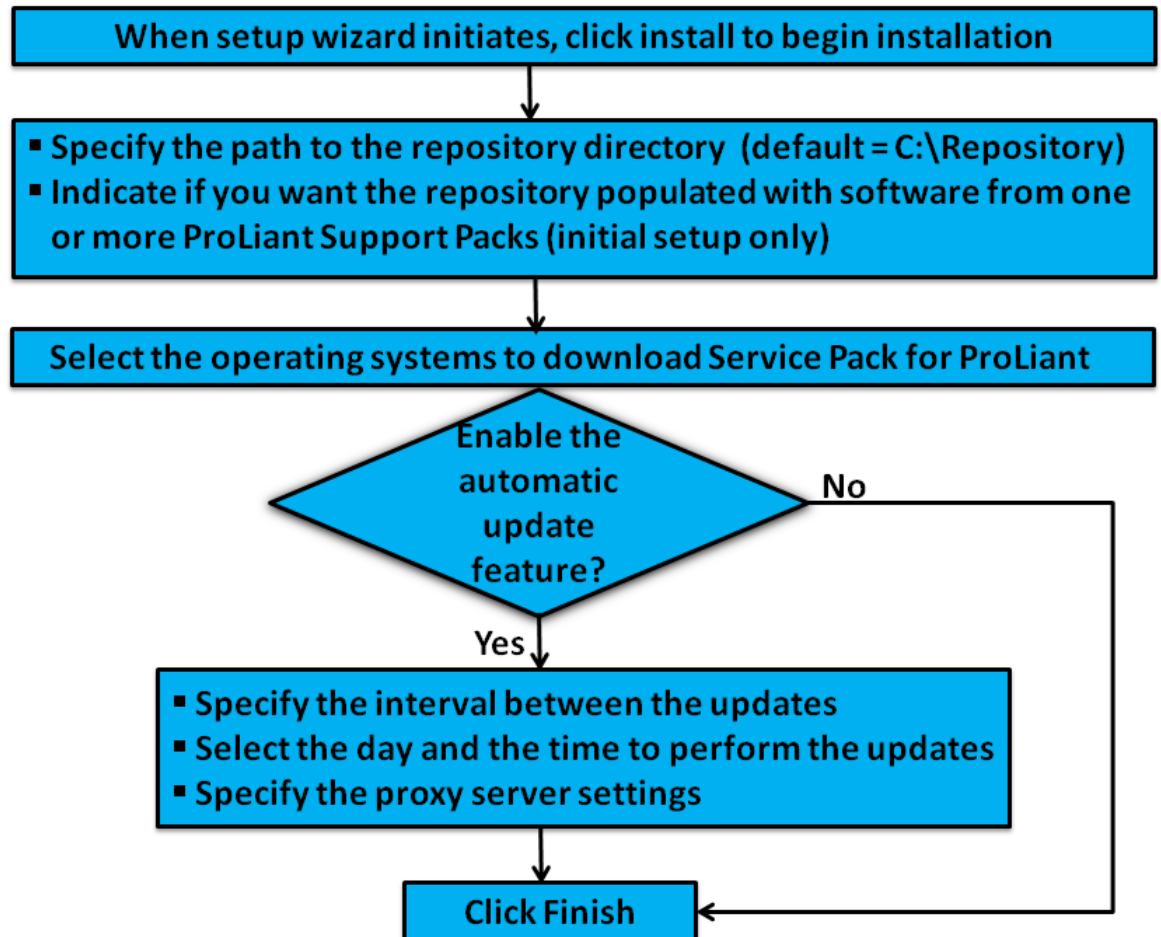
You can install the HP VCA component interactively without any configurations. After installation, you can configure the HP VCA settings at any time by browsing to HP VCA with HP SMH's

Administrator or **Operator** privileges.

7 Installing the HP VCRM on Windows

HP VCRM requirements for Windows

The following diagram illustrates a logical order to the HP VCRM installation process.



System requirements

To install the HP VCRM, the computer must meet the minimum requirements listed.

Supported hardware and software

- Operating system
 - Microsoft Windows Server 2003
 - Microsoft Windows Server 2003 ES for 64-bit Extended Systems
 - Microsoft Windows Server 2003 64-bit Enterprise Edition
 - Microsoft Windows Unified Data Storage Server 2003 x64 Edition
 - Microsoft Windows XP
 - Microsoft Windows XP Professional with Service Pack 2 for x86
 - Microsoft Windows Server 2008

- Microsoft Windows Server 2008 R2
- Microsoft Windows Server 2008 R2 SP1
- Microsoft Windows Server 2008 R2 Foundation
- Microsoft Windows Vista
- Microsoft Windows 7
- Microsoft Windows multipoint server 2011
- Microsoft Windows Server 2012
- Microsoft Windows Server 2012 R2
- Browser
 - Firefox 17 ESR or later
 - Internet Explorer 10.0
 - Internet Explorer 9.0
 - Internet Explorer 8.0
 - Internet Explorer 7.0
- Server software
 - TCP/IP installed
 - HP SMH installed
- Hardware
 - ProLiant Server
 - HP Business Desktops
 - Microsoft Windows Integrity Servers
- Disk space
 - 14-15 MB (Installation files only)
 - 200 MB in the HP VCRM installation drive for temporary Service Pack for ProLiant and ProLiant and Integrity Support Packs extraction
 - 6 GB for the repository. This must be on a local, writeable drive.
- System memory
 - 256 MB for Microsoft Windows XP and Microsoft Windows Server 2003

❗ **IMPORTANT:** The disk space requirements previously mentioned are specific to the installation of the HP VCRM. The size of the repository depends on the files contained in the repository directory. Each Service Pack for ProLiant and ProLiant and Integrity Support Packs executable, which is downloaded automatically if the auto update feature is enabled, is approximately 100 MB in size and extracts to approximately 200 MB in size. If you are downloading multiple Service Pack for ProLiant and ProLiant and Integrity Support Packs, then you can multiply this size by the number of Service Pack for ProLiant and ProLiant and Integrity Support Packs you are downloading in your repository to determine how much disk space is required.

Client requirements

Minimum requirements for client access to the HP VCRM are outlined.

Hardware and software requirements

- Operating system
 - Microsoft Windows Server 2003
 - Microsoft Windows XP
 - Microsoft Windows Server 2008
 - Microsoft Windows Server 2008 R2
 - Microsoft Windows Server 2008 R2 SP1
 - Microsoft Windows Server 2008 R2 Foundation
 - Microsoft Windows Vista
 - Microsoft Windows 7
 - Microsoft Windows Server 2012
 - Microsoft Windows Server 2012 R2
- Browser
 - Internet Explorer 6.0 with Service Pack 1 or later
 - Internet Explorer 7.0
 - Internet Explorer 8.0
 - Internet Explorer 9.0
 - Mozilla Firefox 3.0 or later

Note: Uploading software by way of the Mozilla browser interface is not supported.
- System memory
 - 256 MB of RAM for Microsoft Windows XP or Microsoft Windows Server 2003

Configuring Internet Explorer settings for HP SMH pre-configuration

Some features of the HP VCRM's browser interface depend on browser settings at the client system from which the HP VCRM is being accessed. The security settings in Microsoft Internet Explorer must be set to initialize the **HP VCRM Upload** process.

To configure the Microsoft Internet Explorer security settings:

1. From the **Microsoft Internet Explorer** toolbar, click **Tools** and select **Internet Options**. The **Internet Options** dialog box appears.
2. Click **Custom Level**. The **Security Settings** dialog box appears.
3. Under **ActiveX controls and plug-ins**, **Download signed ActiveX controls**, select **Enable**.
4. Under **Run ActiveX controls and plug-ins**, select **Enable**.
5. Under **Script ActiveX controls marked safe for scripting**, select **Enable**.

The advanced settings in Microsoft Internet Explorer must be set to ensure that saving a copy of the HP VCRM log functions when the log is cleared.

To configure the Microsoft Internet Explorer advanced settings:

1. From the **Microsoft Internet Explorer** toolbar, click **Tools** and select **Internet Options**. The **Internet Options** dialog box appears.
2. Click the **Advanced** tab.
3. Scroll down to the **Security** section, and disable **Do not save encrypted pages to disk**.
4. Click **OK** to save your changes and close the **Internet Options** dialog box.

Installation Guidelines

This section elaborates the guidelines that you need to consider while installing VCRM either during HP SIM installation or through independent installation.

Following are the points that you must consider while installing VCRM:

- While the VCRM is installed on only one system, you must install the VCA on all systems in your network.
- After installing VCRM, use the **Component** option to configure components such as VCA and SMH before deploying them to all target servers.
- Use the install software/firmware to install the SPP components on all target servers for the first time.
- Use the **Configure or Repair Agents** option in HP SIM to configure and enable SNMP on all target systems.

Installing the HP VCRM

The HP VCRM can be installed during the HP SIM installation or you can install it independently. Although the HP VCRM can be obtained from multiple sources, the following example shows the steps for obtaining the software from the HP Insight Management DVD and installing it along with HP SIM.

To install HP VCRM from the HP Insight Management DVD:

1. Insert the HP Insight Management DVD in the DVD drive. The **HP Insight Management** window appears.
2. Click **Agree** to accept the license agreement. You can click **Disagree** to cancel and close the window.
3. Click the **Products** tab.
4. From the left pane, click the **Version Control Repository Manager** link. The HP VCRM options appear in the right pane.
5. The HP VCRM installation wizard initiates the HP Insight Management Agents configuration settings in interactive mode when the installation executable is run from the command line or launched from Windows Explorer. After the wizard initiates, the **HP Setup - HP VCRM** dialog box appears.

If you have a previous version of the HP VCRM installed on a machine, the installation wizard detects it and initiates the upgrade with the current version displayed in the dialog box.

If you have the current version of the HP VCRM installed on a machine, the installation wizard detects it and initiates the reinstallation. The **HP Setup - HP VCRM** dialog box indicates that the software is installed and current and that you can reinstall it.

Note: If you have a newer version of the HP VCRM installed and you want to downgrade, uninstall the current HP VCRM, reboot the machine, and run the new installation.

6. Click **Install**. The **HP VCRM Setup - Repository Directory** dialog box appears.

Note: You can click **View Documentation** to view the documentation.

7. Click **Cancel** to exit the setup and abort the installation.

Note: When VCRM is selected, HP SIM and HP SMH will get selected by default.

Configuration Guidelines

This section elaborates the guidelines that you need to consider while configuring VCRM after installing VCRM either during HP SIM installation or through independent installation. When you install VCRM you must set up the repository directory, populate the repository, and configure the automatic Update feature.

Following are the methods that you can use to populate the repository.

- Populate the repository while installing VCRM. Ensure that you have read access to the folders that contain the PSPs and LSPs.
- Populate the repository from the VCRM home page by uploading a support pack. Ensure that you have read access to the folders that contain the PSPs and LSPs.
- Populate the repository from the HP SmartStart CD or HP SmartSetup CD.
- Configure an automatic update of the repository.

You can schedule an automatic update of the repository. However, ensure that the VCRM is connected to the Internet. Also, atleast one VCA should be pointed to the VCRM in the last thirty days.

- Update the repository from <http://www.hp.com>.

HP VCRM Setup - Repository Directory

The **HP VCRM Setup - Repository Directory** dialog box enables you to specify the directory where HP software is located so the HP VCRM can monitor it. The default repository directory path is `%SystemDrive%\repository`. In addition, you can select to have the repository initially populated if you are installing the HP VCRM for the first time.

Note: If you are upgrading or reinstalling the HP VCRM, the **Perform an initial repository population** option is unavailable.

To change the repository directory:

1. Click **Browse**.
2. Select the directory where the HP software is to be stored. The path to the directory appears in the **Repository Directory** field.
3. Select **Perform an initial repository population** if you want to have the repository updated with ProLiant and Integrity Support Packs.

NOTE: If **Perform an initial repository population** is deselected, or the option is not displayed, the **Select OS for PSP download** page appears next.

4. Click **Next** to accept the selected directory. If you selected **Perform an initial repository population** on the previous dialog box, the **HP VCRM Setup - Initial Repository Configuration** dialog box appears.

The **Automatic Update** dialog box enables you to schedule automatic updates for your repository from the HP website.

Note: If you do not want to use the automatic update feature, refer to [Updating a repository](#) to update the repository manually.

Repository Population - Initial Installation

1. Click **Add** to select a directory that contains Service Pack for ProLiant and ProLiant and Integrity Support Packs. The **Browse for Folder** dialog box appears.

2. Navigate to the directory that contains Service Pack for ProLiant and ProLiant and Integrity Support Packs, and click **OK** or **Cancel** to abort the selection.
All Support Packs found in the selected directory are added to the list shown in the **Initial Repository Configuration** dialog box. You can choose as many directories as you want, and then delete any Support Packs from the list you do not want to be copied.
3. Click **Next**. The **Download HP ProLiant and HP Integrity Support Packs for Operating System** page appears.
Select the operating systems from the list. HP VCRM downloads the HP ProLiant and HP Integrity Support Packs for the selected operating systems.
4. Click **Next**. The **HP VCRM Setup - Automatic Update** dialog box appears.

Configuring Automatic Update

The **Automatic Update** dialog box enables you to schedule automatic updates for your repository from the HP website.

Note: If you do not want to use the automatic update feature, refer to [Updating a repository](#) to update the repository manually.

To configure an automatic update:

1. Select **Enable Automatic Update** to automatically download ProLiant and Integrity Support Packs and components at a specific time.
2. In the **Interval between updates** field, select an interval from the drop down menu.
3. In the **Day of Week** field, select a day of the week to update the repository from the drop down menu to update the repository.
4. In the **Time of Day** field, select a time for the update to occur from the dropdown menu for the update to occur.
5. Use the **Set Proxy** option to configure a proxy server for HP VCRM.

To set the proxy server:

- a. Click **Set Proxy**. The **Proxy Server Settings** dialog box displays.
- b. In the **Server Name** field, enter the name of the proxy server. Clearing this field removes all proxy server settings, and the automatic update is performed without connecting through a proxy server.
- c. In the **Port** field, enter the proxy server port. For example, enter 8080. If the **Server Name** field is blank, this value is ignored.
- d. In the **Server Login** field, enter a valid login for the proxy server. Leave this field blank if a server login is not required.
- e. In the **Password** field, enter a valid password for the login on the proxy server. If the **Server Login** field is blank, this field is ignored.
- f. Click **OK** to save your settings or **Cancel** to discard the settings.
6. Click **Finish** to save the HP VCRM settings.
If **Automatic Update** is enabled and a proxy server is configured, the connection with the proxy server is verified before continuing. If the proxy server cannot be reached, a message appears indicating there was an error testing the download of the autoupdate catalog. Click **Yes** to save your settings or click **No** to re-enter the proxy server information.
7. The **HP Setup** wizard page appears, and the installation begins. When it completes, the result of the installation appears.
8. Click **Close**. The installation is complete.

Note: You can install the HP VCRM during the HP SIM installation. Refer to the *HP SIM User Guide* for more details. Also remember, that in a network, HP VCRM must be installed on only one system, but the HP VCA must be installed on all servers.

Installing the HP VCRM for Windows silently

The HP VCRM installation for Windows enables you to silently install the HP VCRM.

Installing silently using the CLI

To install silently using the CLI:

From a command prompt, enter the following command:

```
component name /silent
```

or

```
component name /s
```

For example, you might enter `c:\HP VCRM.exe /silent`.

NOTE: Installing the HP VCRM using `/silent` uses `%SystemDrive%\repository` as the repository store directory, so you must configure the HP VCRM Automatic Update Settings manually.

8 Updating a repository

The **autoupdate** feature of the [HP Version Control Repository Manager](#) is the preferred solution for updating repositories automatically. The **autoupdate** feature of the HP VCRM keeps servers connected to HP for proactive delivery of the latest Service Pack for ProLiant and ProLiant and Integrity Support Packs and components directly to a specified repository. You can configure the automatic population of the repository during the HP VCRM installation, or in the event you cannot use the **autoupdate** feature, you can populate the repository from the HP SmartStart CD as indicated in the [Updating the repository from the HP SmartStart CD](#) section. If you must update the repository manually, for example, because you deleted a Support Pack from the repository and you later needed it, refer to the [Updating the repository manually from the HP SmartStart CD](#) section.

Updating the repository from the HP SmartStart CD

To populate the repository manually with Service Pack for ProLiant from the HP SmartStart CD 6.0 or later:

1. Insert the **HP SmartStart CD** in the CD-ROM drive. The **SmartStart welcome** screen appears.
2. Click **Populate a version control repository with the Service Pack for ProLiant available on this HP SmartStart CD**. A screen appears asking you to enter a machine name.
3. In the **Machine Name** field, enter the name of the machine that has the repository installed.
4. Click **Populate**. Click **Clear** to clear the **Machine Name** field or **Back** to return to the previous screen. The **HP SMH** appears.
5. In the **User** field, select the appropriate login from the dropdown menu.
6. In the **Password** field, enter the password associated with the login that you selected.
7. Click **OK**. The **Upload Support Pack(s)** page appears.
8. To upload a Service Pack for ProLiant, refer to [Updating the repository manually from the HP SmartStart CD](#).

Updating the repository manually from the HP SmartStart CD

To populate the repository manually with Service Pack for ProLiant from the HP SmartStart CD version 6.0 or later:

1. Insert the **HP SmartStart CD** in the CD-ROM drive.
2. From **Windows Explorer**, double-click the CD-ROM drive to open the HP SmartStart CD.
3. Click **Compaq** to open the directory.
4. From within the Compaq directory, click **CSP** to open the directory.
5. The **CSP** directory contains a **NW** directory that contains the Netware-related Support Packs, a **Linux** directory for Linux-related Support Packs, and a **Windows NT** directory that contains all of the components and support packs and an XML file for each supported Microsoft operating system. Click **Linux** or **NT** depending on the type of Support Packs with which you want to populate your repository.
6. After you have opened one of the directories, select all of the Support Pack files, click **Edit** from the Windows Explorer toolbar, and select **Copy**.
7. From Windows Explorer, navigate to the repository directory, for example, `c:\repository`. Click the repository directory.
8. From the **Windows Explorer** toolbar, click **Edit** and select **Paste**. The Support Packs are copied into the `c:\repository` directory. The repository is now populated.
9. From the `c:\repository` directory, select a component. Right-click the component and select **Properties**. Note that the file is read-only. For the HP VCRM to allow component configuration, a component cannot be read-only. Deselect the **read-only** attribute and click **OK**.

Updating the repository manually from the HP SmartSetup CD

To populate the repository with Integrity Support Packs from the HP SmartSetup CD 3.2 or later:

1. Insert the **HP SmartSetup CD** in the CD-ROM drive.
2. From **Windows Explorer**, double-click the CD-ROM drive to open the HP SmartSetup CD.
3. Click **Contents** to open the directory.
4. From within the **Contents** directory, click **supportpack** to open the directory.
5. The **contents** directory contains a **supportpack** directory that contains all Integrity Support Packs.
6. After you have opened the directory, select all of the Integrity Support Pack files, click **Edit** from the Windows Explorer toolbar, and select **Copy**.
7. From **Windows Explorer**, navigate to the repository directory, for example, `c:\repository`. Select the **repository** directory.
8. From the **Windows Explorer** toolbar, click **Edit** and select **Paste**. The Integrity Support Packs are copied into the `c:\repository` directory. The repository is populated.
9. From the `c:\repository` directory, select a component. Right-click the component and select **Properties**. Note that the file is read-only. For the HP VCRM to allow component configuration, a component cannot be read-only. Deselect the read-only attribute and click **OK**.

Updating the repository using the Upload a Support Pack option

The **Upload a Support Pack** in VCRM allows you to browse for HP Service Pack for ProLiant and HP ProLiant and Integrity Support Packs on drives and CDs accessible to your local system, and have those Service Pack for ProLiant and ProLiant and Integrity Support Packs copied into the Version Control Repository directory.

For more information on using the **Upload a Support Pack** option, see the *HP Version Control Repository Manager Online Help*.

Updating the repository manually with HP Service Pack for ProLiant ISO

HP Service Pack for ProLiant (SPP) section displays the SPP stored in the repository.

NOTE: VCRM identifies and extracts only the SPP ISO files found in the repository folders. VCRM identifies the SPP bundle as normal software baselines when adding the files into the repository folders from the SPP ISO files.

When you are logged in locally at the system where the VCRM is installed, you can update the repository manually with HP Service Pack for ProLiant.

To Populate the repository manually with HP Service Pack for ProLiant :

- Copy or Move the ISO file into VCRM repository folder.
VCRM will automatically add the software components from ISO into the repository.

Updating the repository automatically

The **Update from hp.com Now** option allows you to update the repository from <http://www.hp.com/servers/swdrivers> without waiting for a scheduled update to occur.

NOTE: Ensure that either the HP VCA is configured and directed to the HP VCRM or the operating systems are selected for PSP download through HP VCRM Installer GUI during installation/upgrade, web page GUI during configuration, or through the CLI option for automatically updating the repository. For more information on using the automatic update option, see the *HP Version Control Repository Manager Online Help*.

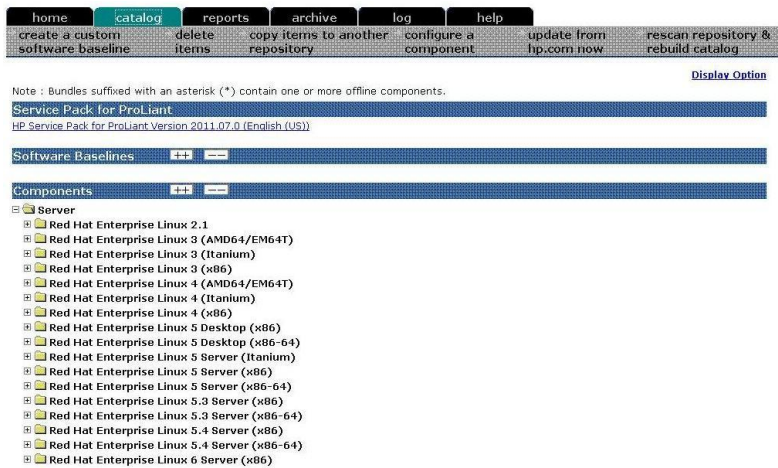
Data migration using the HP VCRM data migration option

In addition to the repository copy function available in HP VCRM, HP Version Control Repository Manager provides with a new option to migrate the HP VCRM data as well as copy the HP VCRM settings from one repository to another.

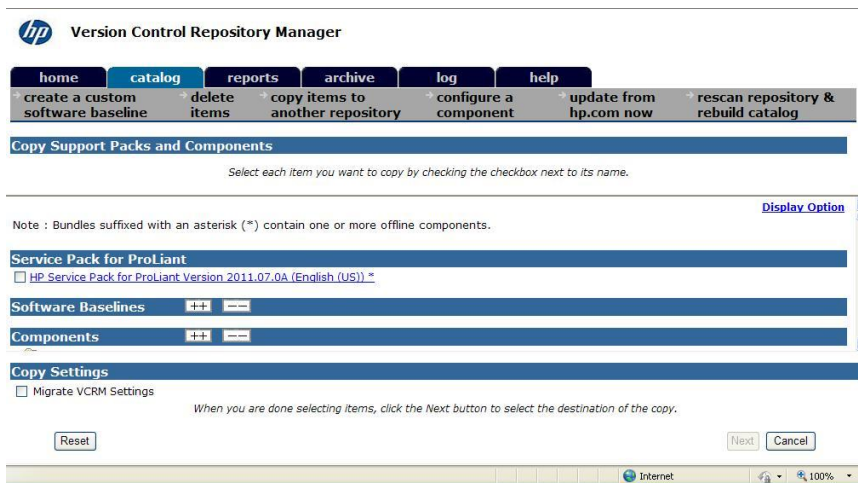
For information on data migration, refer to *HP Insight Management Preinstallation Worksheet* and *HP Insight Management Installation and Configuration Guide*.

Complete the following steps to copy the HP VCRM settings and migrating the data to another repository.

1. Click the **Catalog** tab. The **Catalog** page appears.



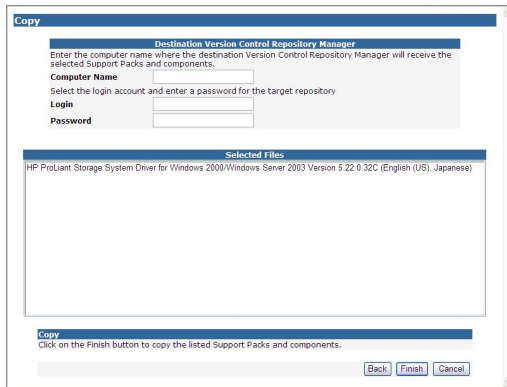
2. Click the **Copy Items to Another Repository** link. The **Copy Support Packs and Components** page appears.



3. Select the **Migrate HP Version Control Repository Manager Settings** checkbox. Click **Reset** to clear the selected checkbox or **Cancel** to abort the HP VCRM data migration operation.

4. Click **Next**.

The **Destination Version Control Repository Manager** page appears.



- a. In the **Computer Name** field, enter the name of the computer to which the HP VCRM settings and data are to be copied.
 - b. In the **Login** field, enter the login name.
 - c. In the **Password** field, enter the password for the account you entered.
5. Click **Finish**. Click **Back** to return to the previous page, or **Cancel** to abort the Copy request.
 6. Click **Close**. The **Catalog** page is refreshed. The repository from which the HP VCRM settings and data was copied, logs the success or failure of the copy operation.

Configuring the repository using VCRM CLI

This section describes procedures that you can use to configure the repository using the VCRM CLI. The topics discussed in this section are:

- Displaying the current VCRM settings
- Selecting the operating systems to download Service Pack for ProLiant
- Changing the repository folder
- Initializing the update from the web
- Configuring automatic update for VCRM

Displaying the current VCRM settings

From the command prompt, enter the following command:

```
vcrmcli.exe /show
```

The command displays the current settings of the HP Version Control Repository Manager in XML format.

NOTE: VCRM is restarted while executing `vcrmcli.exe` file.

NOTE: The displayed XML output may contain Proxy server password.

Selecting the operating systems to download ProLiant Support Packs

From the command prompt, enter the following command:

```
vcrmcli.exe /os "OS version"
```

The command configures the operating systems listed to download ProLiant Support Packs.

Example:

```
vcrmcli.exe /os win2003x64, win2003x86, win2008x64, win2008x86, win2k8 R2, Rhel5, Rhel5x64, Rhel4, Rhel4x64
```

NOTE: VCRM is restarted while executing `vcrmcli.exe` file.

NOTE: Specify the values for the parameters in double quotation marks ("").

The command configures the operating systems list to download ProLiant Support Packs as shown:

- win2003x64 downloads ProLiant Support Packs on Windows Server 2003 x64 platform.
- win2003x86 downloads ProLiant Support Packs on Windows Server 2003 x86 platform.
- win2008x64 downloads ProLiant Support Packs on Windows Server 2008 x64 platform.
- win2008x86 downloads ProLiant Support Packs on Windows Server 2008 x86 platform.
- win2k8 R2 downloads ProLiant Support Packs on Windows Server 2008 x64 platform.
- Rhel5 downloads ProLiant Support Packs on Red Hat Enterprise Linux 5 server x86 platform.
- Rhel5x64 downloads ProLiant Support Packs on Red Hat Enterprise Linux 5 server AMD64/EM64T platforms.
- Rhel4 downloads ProLiant Support Packs on Red Hat Enterprise Linux 4 server x86 platform.
- Rhel4x64 downloads ProLiant Support Packs on Red Hat Enterprise Linux 4 server AMD64/EM64T platforms.

NOTE: Executing the command `vcrmcli.exe /os` without any value displays all the supported operating system attributes.

NOTE: VCRM downloads ProLiant Support Packs for HP Version Control Agent's operating systems.

Changing the repository folder

From the command prompt, enter the following command:

```
vcrmcli.exe /repository "location"
```

The command configures the VCRM repository directory to the new location while retaining all of the other settings.

Example:

```
vcrmcli.exe /repository "c:\new repository"
```

The command configures the VCRM repository directory to "c:\new repository" directory.

NOTE: VCRM is restarted while executing `vcrmcli.exe` file.

NOTE: Specify the values for the parameters in double quotation marks ("").

Initializing the update from the web

From the command prompt, enter the following command:

```
vcrmcli.exe /updatenow
```

NOTE: VCRM is restarted while executing `vcrmcli.exe` file.

The command starts automatically updating the current VCRM repository directory from the web based on the current settings while retaining all of the other settings including the VCRM autoupdate schedule settings.

NOTE: If /updatenow command is entered with other options like /repository, /autoupdate, etc, VCRM CLI applies all the new settings and then start the update once.

Configuring automatic update for VCRM directory

From the command prompt, enter the following command:

```
vcrmcli.exe /autoupdate
/interval "Interval"
/dayofweek "Day of the week"
/time "Update Start time"
/proxyname "Proxy server name or IP address"
/proxyport "Port number"
/proxyuser "User Name"
/proxypwd "Password"
```

NOTE: VCRM is restarted while executing vcrmcli.exe file.

The command configures the VCRM autoupdate schedule settings.

Example:

```
vcrmcli.exe /autoupdate /interval "7" /dayofweek "0" /time "22"/proxyname
" proxy.domain.com" /proxyport " 1234" /proxyuser "" /proxypwd ""
```

NOTE: Specify the values for each of the parameters in double quotation marks ("").

where,

/interval "7" corresponds to one week (7 days, valid values: 1, 2, 7, 14, 28). Default is 28.

/dayofweek "0" corresponds to Sunday (0 is default, and is not used if the interval is less than 7. Valid values: 0, 1, 2, 3, 4, 5, 6)

/time " 22" corresponds to 10 PM (24-hour time format, valid values: 0 to 23). Default is 12:00:00 AM.

/proxyname " proxy.domain.com" "proxy.domain.com" specifies the name or IPv4 of the proxy server to use for autodownload

/proxyport "1234" "1234" specifies the port number for the given proxy name

/proxyuser "" specifies the user name for authenticating the proxy server

/proxypwd "" specifies the password for the given proxy user name

NOTE: If /proxyuser argument has a valid user name and /proxypwd is not used as argument, vcrmcli.exe prompts the user for a password during execution.

The command configures the autoupdate schedule settings to update the repository on Sunday 10 PM.

9 Uninstalling the HP VCA on Windows operating systems

To uninstall the HP VCA:

1. Select **Start**→**Settings**→**Control Panel**.
2. Click **Add/Remove Programs**. The **Add/Remove Programs Properties** dialog box appears with a listing of installed software.
3. Select **HP VCA**.
4. Click **Change/Remove**. The **Remove** dialog box appears asking you to confirm your intention to remove the HP VCA.
5. Click **Yes**.

Uninstalling the HP VCA on Windows operating systems silently

The HP VCA uninstallation enables you to silently uninstall the HP VCA on Windows x86 and x64 systems.

Uninstalling silently using the CLI

To uninstall the HP VCA using the CLI:

From the command prompt, enter the following command:

```
#MsiExec.exe /qn /X{5A5F45AE-0250-4C34-9D89-F10BDDEE665F}
```

10 Uninstalling the HP VCA on Linux operating systems

To uninstall the HP VCA for Linux:

To uninstall the [HP Version Control Agent](#), log in as root, and execute the following command: #
`rpm -e <VCA package name>`

For example, # `rpm -e hpvca`

where, hpvca is the version control package name.

The HP VCA is uninstalled.

Note: After the HP VCA has been removed, the configuration options and logs are deleted.

11 Uninstalling the HP VCRM on Windows operating systems

To uninstall HP VCRM:

1. Select **Start**→**Settings**→**Control Panel**.
2. Click **Add/Remove Programs**. The **Add/Remove Programs** dialog box appears with a listing of installed software.
3. Select **HP VCRM**.
4. Click **Change/Remove**. The **Remove** dialog box appears asking you to confirm your intention to remove the HP VCRM.
5. Click **Yes**. If you decide you do not want to uninstall the HP VCRM, click **No** to cancel.

Note: The designated repository directory is not deleted during uninstallation. The directory must be manually deleted.

Uninstalling the HP VCRM on Windows operating systems silently

The HP VCRM uninstallation enables you to silently uninstall the HP VCRM on Windows x86 and x64 systems.

Uninstalling silently using the CLI

To uninstall the HP VCRM using the CLI:

From the command prompt, enter the following command:

```
#MsiExec.exe /qn /X{221474E1-4699-44B8-8A86-748E1B15108B}
```

12 Support and other resources

Information to collect before contacting HP

Be sure to have the following information available before you contact HP:

- Software product name
- Hardware product model number
- Operating system type and version
- Applicable error message
- Third-party hardware or software
- Technical support registration number – SAID (Service Agreement Identifier)

How to contact HP

Use the following methods to contact HP technical support:

- In the United States, see the Customer Service / Contact HP United States website for contact options:
http://welcome.hp.com/country/us/en/contact_us.html
- In the United States, call 1-800-HP-INVENT (1-800-474-6836) to contact HP by telephone. This service is available 24 hours a day, 7 days a week. For continuous quality improvement, conversations might be recorded or monitored.
- In other locations, see the Contact HP Worldwide website for contact options:
<http://welcome.hp.com/country/us/en/wwcontact.html>

Security bulletin and alert policy for non-HP owned software components

Open source software (such as OpenSSL) or third-party software (such as Java) are sometimes included in HP products. HP discloses that the non-HP owned software components listed in the Insight Management end user license agreement (EULA) are included with Insight Management. The EULA is included with the Insight Management Installer on Insight Management DVD #1.

HP addresses security bulletins for the software components listed in the EULA with the same level of support afforded HP products. HP is committed to reducing security defects and helping you mitigate the risks associated with security defects when they do occur.

When a security defect is found, HP has a well defined process that culminates with the publication of a security bulletin. The security bulletin provides you with a high level description of the problem and explains how to mitigate the security defect.

Subscription service

HP recommends that you register your product at the Subscriber's Choice for Business website:

http://www.hp.com/country/us/en/contact_us.html

After registering, you will receive email notification of product enhancements, new driver versions, firmware updates, and other product resources.

Registering for software technical support and update service

Insight Management includes one year of 24 x 7 HP Software Technical Support and Update Service. This service provides access to HP technical resources for assistance in resolving software implementation or operations problems.

The service also provides access to software updates and reference manuals in electronic form as they are made available from HP.

With this service, Insight Management customers benefit from expedited problem resolution as well as proactive notification and delivery of software updates. For more information about this service, see the following website:

<http://www.hp.com/services/insight>

Registration for this service takes place following online redemption of the license certificate.

How to use your software technical support and update service

As HP releases updates to software, the latest versions of the software and documentation are made available to you. The Software Updates and Licensing portal gives you access to software, documentation and license updates for products on your HP software support agreement.

You can access this portal from the HP Support Center:

<http://www.hp.com/go/hpsc>

After creating your profile and linking your support agreements to your profile, see the Software Updates and Licensing portal at <http://www.hp.com/go/hpsoftwareupdatesupport> to obtain software, documentation, and license updates.

HP authorized resellers

For the name of the nearest HP authorized reseller, see the following sources:

- In the United States, see the HP U.S. service locator web site:
http://www.hp.com/service_locator
- In other locations, see the Contact HP worldwide web site:
<http://www.hp.com/go/assistance>

New and changed information in this edition

The following section lists what is new and changed for the HP Version Control 7.2 release:

- Improved HP VCRM to support new HP SIM features.
- Improved Archive in HP VCRM to handle SPP.
- Added model number of managed nodes in HP VCRM detailed report.

Related information

Documents

- *HP System Management Homepage Installation and Configuration Guide*
The *HP System Management Homepage Installation and Configuration Guide* provides information about installing and getting started using the HP SMH. This guide includes an introduction to basic concepts, definitions, and functionality associated with the HP VCA and HP VCRM. This document is available on the HP Management DVD and at <http://www.hp.com/go/insightmanagement/sim/docs>

Troubleshooting

- *HP VCA and HP VCRM Help System*
The help systems provide a complete set of documentation for using, maintaining, and troubleshooting the HP VCA and the HP VCRM. Download the HP VCA or HP VCRM Online Help in PDF format from <http://www.hp.com/go/insightmanagement/sim/docs>

For More Information

- **Service Pack for ProLiant**
Download the HP VCRM and the latest Service Pack for ProLiant, which contain the latest HP VCA and the HP Smart Update Manager . Download the Service Pack for ProLiant at <http://www.hp.com/go/spp/>
- **Maintenance.**
Read about maintenance and support of HP products to include customer advisories, knowledge bases, and more at <http://www.hp.com/go/hpsc>

Typographic conventions

This document uses the following typographical conventions:

<i>Book title</i>	The title of a book. On the web, this can be a hyperlink to the book itself.
Command	A command name or command phrase, for example <code>ls -a</code> .
Computer output	Information displayed by the computer.
Ctrl+x or Ctrl-x	A key sequence that indicates you must hold down the keyboard key labeled Ctrl while you press the letter <i>x</i> .
ENVIRONMENT VARIABLE	The name of an environment variable, for example, <code>PATH</code> .
Key	The name of a keyboard key. Return and Enter both refer to the same key.
Term	A term or phrase that is defined in the body text of the document, not in a glossary.
User input	Indicates commands and text that you type exactly as shown.
<i>find(1)</i>	HP-UX manpage. In this example, “find” is the manpage name and “1” is the manpage section.
<i>Replaceable</i>	The name of a placeholder that you replace with an actual value.
[]	In command syntax statements, these characters enclose optional content.
{ }	In command syntax statements, these characters enclose required content.

	The character that separates items in a linear list of choices.
...	Indicates that the preceding element can be repeated one or more times.
WARNING	An alert that calls attention to important information that, if not understood or followed, results in personal injury.
CAUTION	An alert that calls attention to important information that, if not understood or followed, results in data loss, data corruption, or damage to hardware or software.
IMPORTANT	An alert that calls attention to essential information.
NOTE	An alert that contains additional or supplementary information.
TIP	An alert that provides helpful information.

13 Documentation feedback

HP is committed to providing documentation that meets your needs. To help us improve the documentation, send any errors, suggestions, or comments to Documentation Feedback (docsfeedback@hp.com). Include the document title and part number, version number, or the URL when submitting your feedback.

Glossary

available software	A listing of the software components available in the repository that the VCA has been configured to point to. When browsing directly into a VCA, these additional components can be selected for installation.
component	A component is a single, self-describing, installable (interactive or silent) binary file containing a single piece of software, such as firmware image, driver, agent, or utility, that is supported by the management and update tools.
Custom Software Baseline	A set of HP software components that have been bundled together as a baseline by the customer. Modifying the contents of an existing Support Pack provides customers with the flexibility to define their own baselines for their environment.
graphical user interface (GUI)	A program interface that takes advantage of the computer's graphics capabilities to make the program easier to use. HP SIM's GUI is Web-enabled and displays in a web browser.
HP Insight Management Agent	A program that regularly gathers information or performs some other service without the user's immediate presence.
HP ProLiant and Integrity Support Pack	An HP ProLiant and Integrity Support Pack, or Custom Software Baseline is a set of HP software components that have been bundled together by HP, and verified to work with a particular operating system. A ProLiant and Integrity Support Pack contains driver components, agent components, and application and utility components. All of these are verified to install together.
HP Systems Insight Manager	<p>The system management software that is capable of managing a wide variety of systems, including HP systems, clusters, desktops, workstations, and portables.</p> <p>HP SIM combines the strengths of HP Insight Manager 7, HP Tootools, and HP Servicecontrol Manager to deliver a single tool for managing HP ProLiant, Integrity, and HP 9000 systems running Windows, Linux, and HP-UX. The core HP SIM software delivers the essential capabilities required to manage all HP server platforms. HP SIM can also be extended to deliver unparalleled breadth of system management with plug-ins for HP storage, power, client, and printer products. Plug-ins for rapid deployment, performance management, and workload management enable systems administrators to pick the value added software required to deliver complete lifecycle management of their hardware assets.</p>
HP Version Control Agent	An Insight Management Agent that is installed on a server to enable the customer to see the HP software that is installed on that server. The VCA can be configured to point to a repository being managed by the VCRM, enabling easy version comparison and software deployment from the repository to the server that the VCA is installed upon.
HP Version Control Repository Manager	An Insight Management Agent that enables a customer to manage software from HP that is stored in a directory/repository known as the Version Control Repository.
HP Web-enabled System Management Software	The software that manages HP Web-enabled products.
installed version	A particular HP software component that is installed on the server on which the VCA is installed.
latest version	The latest version of a particular HP software component that is contained in the repository.
overall software status	This section indicates whether the software on the server on which the VCA is installed has any updates available within the repository in which it has been configured to monitor.
Red Hat Package Manager (RPM)	The Red Hat Package Manager is a powerful package manager that can be used to build, install, query, verify, update, and uninstall individual software packages. A package consists of an archive of files and package information, including name, version, and description.
Reference Support Pack	A baseline bundle of HP software components that the VCA can be configured to point to in the repository. This setting enables users to indicate that they want to keep all of their software up to a certain Support Pack level.

Replicate Agent Settings	A tool that can be used to copy Web-based agent settings to a group of systems.
repository	A directory containing ProLiant and Integrity Support Packs and Smart Components.
Secure Task Execution (STE)	The secure execution of a task from a managed system. This feature of HP SIM ensures that the user requesting the task has the appropriate rights to perform the task, and encrypts the request to protect data from snooping.
Simple Network Management Protocol (SNMP)	One of the management protocols supported by HP SIM. Traditional management protocol used extensively by networking systems and most servers. MIB-2 is the standard information available consistently across all vendors.
single login	Permission granted to an authenticated user browsing to HP SIM to browse to any of the managed systems from within HP SIM without re-authenticating to the managed system. HP SIM is the initial point of authentication and browsing to another managed system must be from within HP SIM.
software inventory	A listing of the HP software installed on the system where the VCA is installed.
support pack version	A field that displays the version of a particular HP software component that is contained in the Reference Support Pack that the VCA has been configured to use as a baseline. There might be a later version than this available in the repository, but this is the latest version of this particular component in the Reference Support Pack.
System Management Homepage	An integrated piece of software used by the HP suite of HP Web-enabled System Management Software to communicate over HTTP and HTTPS. It provides a uniform set of functionality and security to HP Web-enabled System Management Software.
VCA log	A listing of all the software maintenance tasks completed by the VCA and reports resulting from those tasks.
version control	Referred to as the VCRM installed on a Windows system for Windows and Linux ProLiant systems, and Software Distributor on HP-UX operating systems. Provides an overview of the software status for all managed ProLiant or Integrity systems and can update system software and firmware on those systems programmatically using predetermined criteria. Version control identifies systems that are running out-of-date system software, indicates if an upgrade is available, and provides reasons for upgrading. For HP-UX systems, Software Distributor can be launched from an HP SIM CMS against one or more installed HP-UX systems.

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